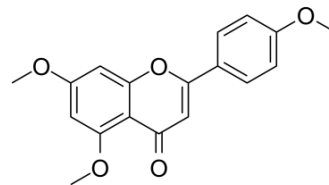


5,7,4'-Trimethoxyflavone

Cat. No.:	HY-N6818
CAS No.:	5631-70-9
Molecular Formula:	C ₁₈ H ₁₆ O ₅
Molecular Weight:	312.32
Target:	Apoptosis; Caspase; PARP
Pathway:	Apoptosis; Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description 5,7,4'-Trimethoxyflavone is isolated from *Kaempferia parviflora* (KP) that is a famous medicinal plant from Thailand. 5,7,4'-Trimethoxyflavone induces **apoptosis**, as evidenced by increments of sub-G1 phase, DNA fragmentation, annexin-V/PI staining, the Bax/Bcl-xL ratio, proteolytic activation of **caspase-3**, and degradation of **poly (ADP-ribose) polymerase (PARP)** protein. 5,7,4'-Trimethoxyflavone is significantly effective at inhibiting proliferation of SNU-16 human gastric cancer cells in a concentration dependent manner^[1].

IC₅₀ & Target	Caspase-3	PARP
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REFERENCES

[1]. Kim H, et al. Induction of ER Stress-Mediated Apoptosis by the Major Component 5,7,4'-Trimethoxyflavone Isolated from *Kaempferia parviflora* Tea Infusion. *Nutr Cancer*. 2018 Aug-Sep;70(6):984-996.

Caution: Product has not been fully validated for medical applications. For research use only.

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